

## ISC | INTEGRATION SERVICES CENTER

U.S. Department of Health and Human Services • National Institutes of Health

# Service Description:

## *Identity Provider Lookup*

Version #	Change Description	Owner
1.0	Initial Version	Chris Leggett

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**Purpose:**

The purpose of this document is to provide a general description of the “Identity Provider Lookup” web service.

**General Description:**

The Identity Provider Lookup Web Service returns the federation endpoint request URI and additional information about a particular endpoint.

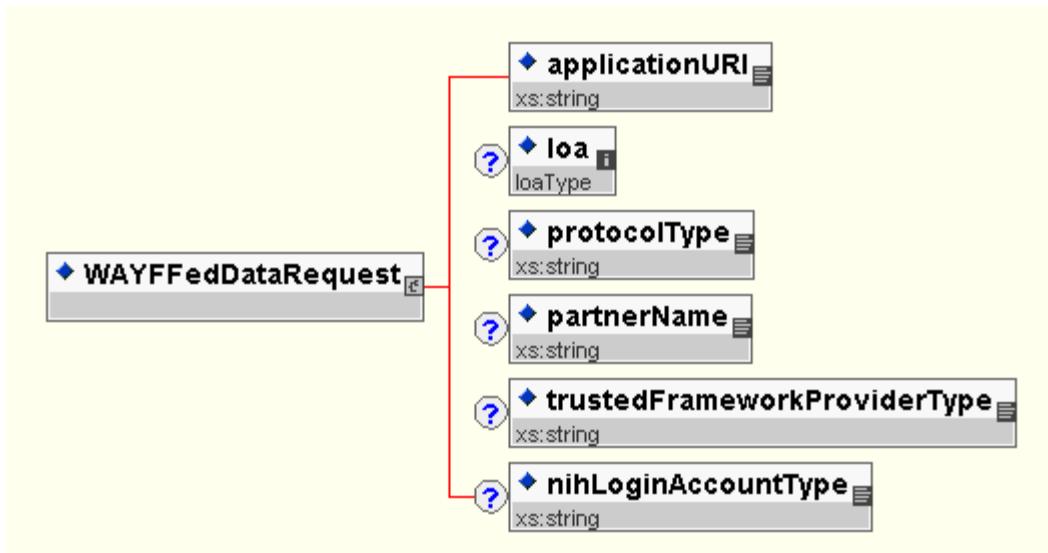
**Operations:**

This service allows one operation to retrieve federation data based on the requested applicationURI.

## Input Schema:

The input schema consists of the following parameters:

Field Name	Description	Required/Optional
<b>Username</b>	NIH AD username used for authentication	Required
<b>Password</b>	Password for the username	Required
<b>applicationURI</b>	A NIH application URI that accepts federation credentials.	Required
<b>loa</b>	(Filter) The NIST Level of Assurance (LOA) of a federation endpoint. (1,2,3,4)	Optional
<b>protocolType</b>	(Filter) The type of federation protocol of the federation endpoint. (SAML 1.1 , SAML 2.0, OpenID)	Optional
<b>partnerName</b>	(Filter) The “user friendly” name of a federation endpoint. (Google, Verisign, Johns Hopkins University).	Optional
<b>trustedFrameworkProviderType</b>	(Filter) The trust framework provider type of a federation endpoint. (InCommon, Open Identity)	Optional
<b>nihLoginAccountType</b>	(Filter) The nih login assigned account type for a federation endpoint. (Research Organizations, OpenID, Government agencies)	Optional



The Username/password is required to authorize the user requesting the data. The service queries the database based on the input parameters from the web service request.

#### Output Schema:

The output schema consists of the following parameters:

Field Name	Description
<b>Status Code</b>	0 = Success 8 = Error
<b>Status Message</b>	If an error occurs then the status message will be populated. Used for internal troubleshooting for CIT ISC Admins.
<b>applicationID</b>	The associated application ID for the requested application URI.

<b>applicationURI</b>	The application URI that was requested.
<b>federationEndPointID</b>	The federation endpoint ID
<b>requestURI</b>	The URI that an is used to send a federation request to a federation Identity Provider
<b>loa</b>	The NIST Level of Assurance (LOA) of a federation endpoint. (1,2,3,4)
<b>protocolType</b>	The type of federation protocol of the federation endpoint. (SAML 1.1, SAML 2.0, OpenID)
<b>partnerName</b>	The “user friendly” name of a federation endpoint. (Google, Verisign, Johns Hopkins University).
<b>trustFrameworkProviderType</b>	The trust framework provider type of a federation endpoint. (InCommon, Open Identity)
<b>nihLoginAccountType</b>	The NIH Login assigned account type for a federation endpoint. (Research Organizations, OpenID, Government agencies)

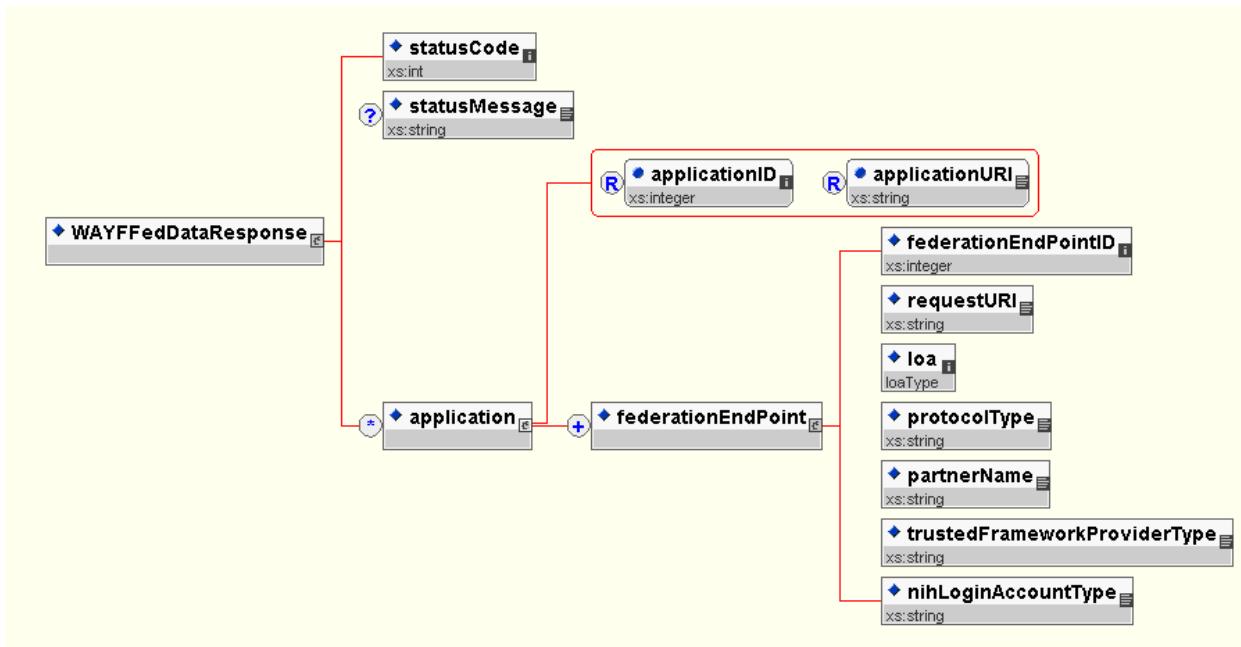


Figure 1 - Identity Provider Lookup Web Service Schema

**Example SOAP Request:**

```

<soapenv:Envelope xmlns:oas="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd"
xmlns:sch="http://www.tibco.com/schemas/FederationServices/SharedResources/Schemas/Schema.x
sd" xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <oas:Security soapenv:mustUnderstand="1">
      <wsse:UsernameToken wsu:Id="UsernameToken-2" xmlns:wsse="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
      xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
      1.0.xsd">
        <wsse:Username>NIH_AD_USER_ACCOUNT</wsse:Username> <wsse:Password
        Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
        username-token-profile-
        1.0#PasswordText">CLEAR_TEXT_PASSWORD</wsse:Password>
        <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-
        200401-wss-soap-message-security-
        1.0#Base64Binary">XWhMwXfbx0kH2NwzTysHwg==</wsse:Nonce>
        <wsu:Created>2010-02-19T21:28:35.236Z</wsu:Created>
      
```

```
</wsse:UsernameToken>
</oas:Security>
</soapenv:Header>
<soapenv:Body>
  <sch:IdentityProviderLookupRequest>
    <sch:applicationURI>citdecadssolog.nih.gov/iTrust/headers.asp
    </sch:applicationURI>
  </sch:IdentityProviderLookupRequest>
</soapenv:Body>
</soapenv:Envelope>
```

### Example SOAP Response:

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <ns0:IdentityProviderLookupResponse
      xmlns:ns0="http://www.tibco.com/schemas/FederationServices/SharedResources/Schemas/Schema.xsd">
      <ns0:statusCode>0</ns0:statusCode>
      <ns0:application applicationID="8"
        applicationURI="citdecadssolog.nih.gov/iTrust/headers.asp">
        <ns0:federationEndPoint>
          <ns0:federationEndPointID>8</ns0:federationEndPointID>
          <ns0:requestURI>https://shibboleth.johnshopkins.edu/shibboleth-idp/SSO</ns0:requestURI>
          <ns0:loa>1</ns0:loa>
          <ns0:protocolType>SAML 1.1</ns0:protocolType>
          <ns0:partnerName>Johns Hopkins University</ns0:partnerName>
          <ns0:trustedFrameworkProviderType>InCommon</ns0:trustedFrameworkProviderType>
          <ns0:nihLoginAccountType>Research Organizations</ns0:nihLoginAccountType>
        </ns0:federationEndPoint>
        <ns0:federationEndPoint>
          <ns0:federationEndPointID>9</ns0:federationEndPointID>
          <ns0:requestURI>https://sso.unc.edu/idp/profile/Shibboleth/SSO</ns0:requestURI>
          <ns0:loa>1</ns0:loa>
          <ns0:protocolType>SAML 1.1</ns0:protocolType>
          <ns0:partnerName>University of North Carolina at Chapel Hill</ns0:partnerName>
          <ns0:trustedFrameworkProviderType>InCommon</ns0:trustedFrameworkProviderType>
        </ns0:federationEndPoint>
        <ns0:federationEndPoint>
          <ns0:nihLoginAccountType>Research Organizations</ns0:nihLoginAccountType>
        </ns0:federationEndPoint>
        <ns0:federationEndPoint>
          <ns0:federationEndPointID>23</ns0:federationEndPointID>
          <ns0:requestURI>https://shibb.case.edu/shibboleth/SSO</ns0:requestURI>
          <ns0:loa>1</ns0:loa>
          <ns0:protocolType>SAML 1.1</ns0:protocolType>
          <ns0:partnerName>Case Western Reserve University</ns0:partnerName>
          <ns0:trustedFrameworkProviderType>InCommon</ns0:trustedFrameworkProviderType>
        </ns0:federationEndPoint>
        <ns0:federationEndPoint>
          <ns0:nihLoginAccountType>Research Organizations</ns0:nihLoginAccountType>
        </ns0:federationEndPoint>
      </ns0:application>
    </ns0:IdentityProviderLookupResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

```
</ns0:federationEndPoint>
</ns0:application>
</ns0:IdentityProviderLookupResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### How to get the schema?

The schema can be retrieved from the following URL:

<https://soadev.nih.gov/DataServices/IdentityProviderLookup.serviceagent?wsdl>

### Contact Information

For additional information on this web service, contact [CITISCAAdmins@mail.nih.gov](mailto:CITISCAAdmins@mail.nih.gov).